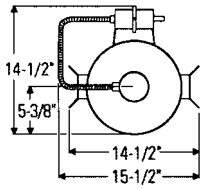
Calculite® Incancescent Open Downlight **784/7784**

6" Aperture A23 Ellipsoidal Reflector

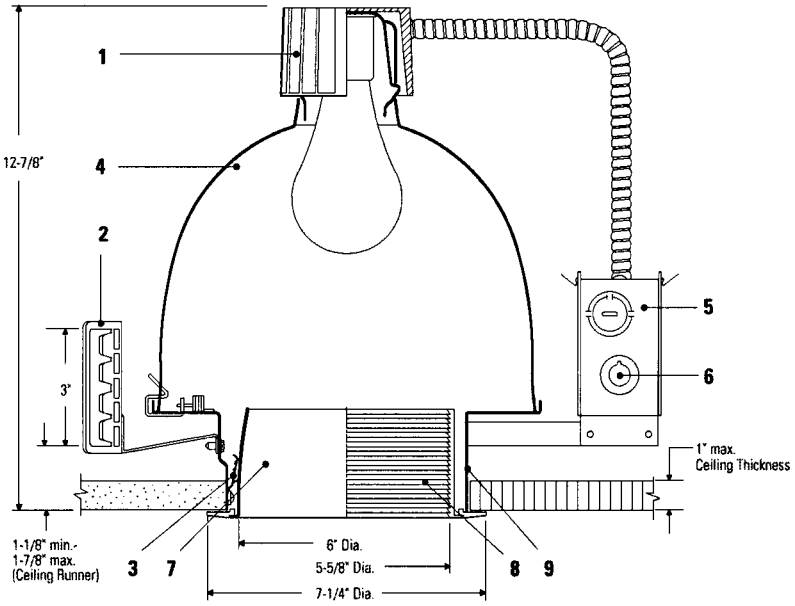


Top View

Flush Trim (Molded trim ring removed)

Molded Trim Ring

White or Polished Flange



Ceiling Cutout: 6 1/2" Dia.

Reflector Trims		Frame-In Kit	Lamp
784CLW	Specular Clear finish with white flange.	**7784**	**A23** 200W
784CLP	Specular Clear finish with polished flange.		
784CL	Specular Clear finish with molded trim ring (flangless).		
784 ☐	Add suffix for other finishes (see options).		

Features

1. **Socket Cup:** Die-cast aluminum cup effectively dissipates heat and assures lamps maintain proper optical alignment to reflector. Snaps onto reflector neck for easy tool-less installation. Contains medium base porcelain socket with nickel plated screw shell wired and No 18 SF1 leads to J-Box.
2. **Mounting Brackets:** Adjust vertically from inside of fixture. Durable 16 ga. steel construction. Use with standard 3/4" or 1 1/2" lathing channels (by others), or Lightolier accessory mounting bars.
3. **Retaining Springs:** Precision tooled springs secure aperture mounting frame for quick tool-less installation.
4. **Reflector:** Specular clear Alzak® upper reflector, retained by spring latches for inspection and maintenance, top relampable.
5. **Junction Box:** 14 ga. steel, 4" x 3 1/2" x 2" box.
6. **Thermal Protector:** Meets NEC and UL requirements. Insulation must be kept 3" away from fixture sides and wiring compartments and must not be placed above fixture in a manner which will entrap heat.
7. **Aperture Cone:** 16 ga. Specular Alzak® aluminum,or optical black multi-groove. Available with white or polished flange or with removable white molded trim ring (field paintable).
8. **Multigroove Baffle:** One piece seamless aluminum. Sharply detailed concentric rings with "sawtooth" profile, optical black finish. Permanently fastened to specular clear reflector.
9. **Mounting Collar:** Die-formed steel painted in baked black enamel.

Other Reflector Finish Options

Comfort Clear Diffuse	**CCD**	Specular Black	**BK**
Specular Gold	**GD**	Multi-Groove Baffle	**MG**
		(MG is only availabe w/ molded trim ring)	

Flange Options

White	**W**
Polished Flange	**P**
Flangeless	Leave Blank (molded trim ring)

Accessories and Options

18" Mounting Bars	**1950** (set of 2)
27" Mounting Bars	**1951** (set of 2)
T-Bar Anchor Clips	**1956** (set of 4, for 1950 & 1951 bars)
Wood Joist Mtg. Bars	**7994** (set of 2)
Sloped Ceiling Adapters	**7920** (see SCA specification sheet)
Step Down Transformer	**7997** (see separate specification sheet)
Chicago Air Plenum	**LC** (add suffix to Frame-in Kit)

Electrical

UL Listed for maximum of 8 No. 12, 75°C through branch circuit conductors, or 60°C supply conductors for end of run.

Labels

UL Listed for damp locations, I.B.E.W.

Alzak® is a registered trademark of ALCOA.

Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Notes:

Lightolier a Genlyte Thomas Company www.lightolier.com
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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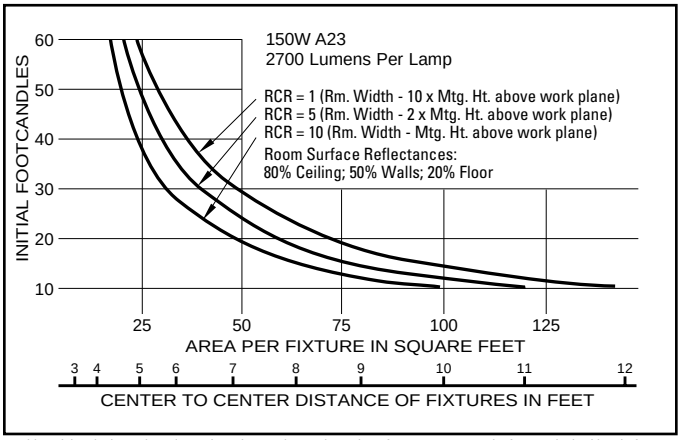
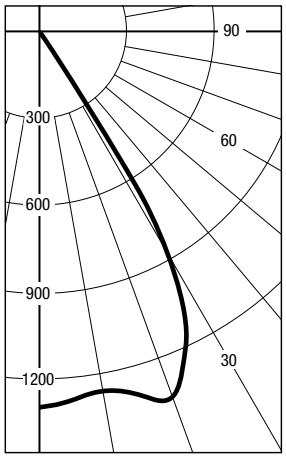
LIGHTOLIER®


150W A23
2700 Lumens Per Lamp
RCR = 1 (Rm. Width - 10 x Mtg. Ht. above work plane)
RCR = 5 (Rm. Width - 2 x Mtg. Ht. above work plane)
RCR = 10 (Rm. Width - Mtg. Ht. above work plane)
Room Surface Reflectances:
80% Ceiling; 50% Walls; 20% Floor
INITIAL FOOTCANDLES
60
50
40
30
20
10
25
50
75
100
125
AREA PER FIXTURE IN SQUARE FEET
3 4 5 6 7 8 9 10 11 12
CENTER TO CENTER DISTANCE OF FIXTURES IN FEET

This quick calculator chart determines the number and spacing of 150 Watt A-23 units for any desired level of illumination. For 200 Watt A-23 units, multiply chart values by 1.4.

Spacing Ration = 1.1



Candlepower Summary

DEG	CP	ZONAL FLUX
2 1/2	1279	31
7 1/2	1257	90
12 1/2	1249	148
17 1/2	1335	220
22 1/2	1287	270
27 1/2	1097	278
32 1/2	646	190
37 1/2	137	46
42 1/2	25.6	9
47 1/2	5.5	2
52 1/2	0	0

ZONE	LUMENS	% LAMP
0-30	1037	38.5
0-40	1273	47.0
0-60	1284	47.5

E.T.L, Inc. report No. 389989
Date: 04-17-64

Efficiency: 47.5%

COEFFICIENTS OF UTILIZATION

% EFFECTIVE CEILING CAVITY REFLECTANCE

	80			70			50			30			10			0
	% WALL REFLECTANCE															
ROOM CAVITY RATIO	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.53	.52	.51	.52	.51	.51	.50	.50	.49	.48	.48	.48	.47	.47	.46	.45
2	.51	.49	.48	.50	.48	.47	.48	.47	.46	.47	.46	.45	.46	.45	.44	.44
3	.48	.47	.45	.48	.46	.45	.47	.45	.44	.45	.44	.43	.44	.44	.43	.42
4	.46	.44	.43	.46	.44	.42	.45	.43	.43	.44	.42.	.41	.43	.42	.41	.40
5	.44	.42	.40	.44	.41	.40	.43	.41	.40	.42	.40	.39	.40	.40	.39	.38
6	.42	.40	38.	42	.40	.38	.41	.39	.38	.40	.39	.38	.40	.38	.37	.37
7	.40	.38	.36	.40	.38	.36	.39	.37	.36	.39	.37	.36	.38	.37	.36	.35
8	.38	.36	.34	.38	.36	.34	.37	.35	.34	.37	.35	.34	.36	.35	.34	.33
9	.36	.34	.32	.36	.34	.32	.36	.34	.32	.35	.34	.32	.35	.33	.32	.32
10	.35	.32	.31	.35	.32	.31	.34	.32	.31	.34	.32	.31	.34	.32	.31	.30

20% FLOOR CAVITY REFLECTANCE
Conversion Factor:

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